Robert H. Moulton

MISSOURI SCHOOLS MAKE FINE GAINS

ONLY ONE COUNTY IN STATE WITHOUT AN APPROVED HIGH SCHOOL

EVANS GOES OUT JANUARY 11

Schools Have Increased From 225 in 1911 to 402 at Present Time—In-coming Official Will Have Big Task to Equal Record.

Jefferson City. Warren county is the only one in high school, said Wm. P. Evans, state superintendent of public schools, while reviewing the development of the public schools of Missouri during the period of his incumbency. Evans goes out of office on Jan. 11 and Howard A. Gass will succeed him.

On Jan. 1, 1911, Evans said there were but 225 approved high schools Missouri, while at the present time nere are 402.

Discussing the growth of high schools in Missouri as indicative of the development of the public schools,

"In no department of the Missouri ducational system has the growth, which has been characteristic of the ast few years, has been so marked as the development of high chools, n Jan. I, 1911, there were 225 ap-roved high schools in the state. Of hese 125 were first class or four-year ligh schools, 39 were segond class or bree-year high schools and 62 were hird or two-year high schools. At he present time there are 402 approved high schools in the state. Of iese 178 are first class, 68 are second class and 156 are (third class. This shows an increase of 175 fo the num-ber of approved high schools, or an increase of 78 per cent.

Treasurer's Report. The state of Missourf closed the old year with nearly \$5,000,000 in her state treasury, an unusually large balance at the close of a biennial period. From now until the close of the sest

sion of the general assembly the balance will continue to grow rapidly, as no more money can be paid out until the appropriations made by that body are available. Returns from county collectors this month will bring several million dollars into the treasury.

State Treasurer E. P. Deal filed with Gov. Major his monthly statement, showing the condition, and transactions of the treasury for December, as follows:

Balance on hand Nov. 30, 1914, \$4,-450,838.11; receipts during November, \$1,319,497.58; disbursements during December, \$828,773,96; balance on hand Dec. 31, \$4,942,011.73. Earnings of the Missouri peniton

tiary for the month were \$44,657.92; disbursements, \$27,535.49, leaving a balance of \$30,166.81.

There is in the capital building fund a balance of \$2,195,400.20, and in the capitol tax fund, out of which the interest on the capitol bonds and the sinking fund for their redemption taken, a balance of \$363,314.59.

in the general good roads fund there is a belance of \$194,614.32 arising from

the following sources:
Registration of automobiles, \$63, 385.56; sale of option stamps, \$12, corporation registration tax, \$54,810.38, and from the general fund. \$63,729.87

The total receipts into the treasury for the biennial period that closed Dec. 31 were \$12,093,163.20 and the total disbursements for the period were \$12,071,711.99. The biennial pe-riod started with a balance on hand of \$4,020,560,52.

Receipts from the inspection of beer by the state for the 1911-1912 period were \$962,159.33 and for the 1913-1914 period aggregated \$987,869.63.

Numerous requests coming to various state departments from bankers and other investment companies for lists of bonds to be issued in the near future and placed upon the market by the various drainage, levee, school and other districts being organized throughout Missouri are construed as an evidence that business conditions are about settled after being demoralized by the European war, and that once more financial institutions are eager to invest.

No "Graft" for News Vendors, Secretary Roach has announced that no charges will be entertained against clerks charged with selling in formation to publishers. The information is public property and if publishers want it they can either tsend tion to send it for the trouble. There can be no graft connected with such un arrangement.

Counterfeiting Plant. Officers at the penitentiary uncell of William Brandon. Four molds and dies for making spurious half

Jollars were found. About 30 coins were confiscated. Alleged Slayer Caught. Gov. Major issued a regulation on the governor of Oklahoma for the return of Harry Ball, charged with hav

ing caused the death of Mrs. Elva Anderson in Clinton county by beating, bruising and biting her.

Barrington Asks Freedom. It is stated that a direct appeal will he made to Gov. Major within the next few days to grant a parole to W. Stymour (Lord Barrington), who is serving a life sentence in the peniten tlary for the murder of James J. Mc-Cann in St. Louis county in 1904.

Money and checks in letters up to date will bring the Missouri charity day collections well up over the \$10,000 mark. The committee is now discussing plans for relief.

Wet" and "Dry" Status.

How "wet and dry" Missouri was on July 1, 1914, can be gleaned from a bulletin dealing with this question siven publicity by the bureau of labor statistics through Commissioner J. T. Fitzpatrick, which states that out of 12,138 special tax payers here to Uncle Sam 8,843 are retail liquor dealers. In this respect Missouri ranks seventh, having more such dealers than Illinois, which includes Chicago. but less than California, New Jersey, New York, Ohio, Pennsylvania and

The "wettest" portion of Missouri is he eastern half, which is known as the First internal revenue district, containing such oases as St. Louis, Hannibal, Cape Girardeau, Hermann, Washington, Caruthersville, New Madrid, St. Charles and two or three other cities, there being 5,646 saloons, retail fiquor dealers and "lid" clubs in this half. The western district, which is the Sixth district, has 3,197 saloons. dramshops and buffets, to be found in Kansas City, St. Joseph, Joplin, Sedalia, Springfield, Jefferson City and three or four other cities. Included in these figures are all other organizations such as the Moose, Elks, Eagles, Owls, the fashionable clubs of the larger cities, also "lid"-lifting social organizations which have bars and dispense liquors. Just how many of these organizations were put out of business by the supreme court decision of a month ago requiring all clubs with buffets to take out a state dramshop license will not be known until next July.

According to the information, there are 46 breweries running in full blast, which in the fiscal year of 1913-14 turned out 4,152,160 barrels of beer, worth approximately \$29,000,000. While ong on breweries, Missouri is short on distilleries, there being only 31 registered plants and 20 in actual operation last July, 24 of these distilling from grain and seven from fruit. On July 1, 1913, there were 34 reg-

stered distillers in the state, indicating a decrease of three in the course of a year. There was also a falling off in the number of retail liquor dealor in the number of retail liquor dealers, there being 8,851 in Missouri in the summer of 1913, which was 118 more than in the summer of 1914.

These liquor figures to not include any "moonshine," "soft and easy," "blind tigers" or "bootlegging" re-

sorts where beer and whisky are sold by the gallon, quart, pint or drink.

Many Dead Laws,

Senator John F. Morton of Richnond, a member of the special commission selected by Gov. Major some months ago to "weed out" chaolete, conflicting, unconstitutional and oth-erwise defunct laws from the Missouri tatutes, is here awaiting the coming of Robert Lamar of Houston and James A. Alford of New London, to hold a meeting to prepare a report on the work

Senator Morton, to whom was assigned volume No. 3 of the statutes, finds that in this volume there are 12 general laws that have been declared unconstitutional in years gone by and should be eliminated.

There are also a number of conflictg sections and incongruities, all of which will be cured by special bills prepared under the report of the com-

A hundred or more bills may be necessary to carry out the "pruning" program that will be suggested by the commission.

nheritance Taxes.

State Auditor Gordon during the last four years has collected \$830,-029.78 more collateral inheritance tax than W. W. Wilder, his predecessor, did during his four years in the of-

The collateral inheritance tax collections made by Gordon for four years, ending Dec. 31, 1914, are: 1911\$ 480,783.06 1912 479,517.35 1913 412,815.49

1914 411,160.49 Total\$1,784,276.84

Roach's Report.

The receipts of the office of the secretary of state under the administra-tion of Cornelius Roach in 1914 were nearly \$200,000 in excess of the most prosperous year in the history of the department prior to Mr. Roach's in-cumbency. The 1914 receipts were \$435,587.62.

The receipts during the last four years totaled \$1,330,997.09. The last four years of his predecessor's term showed total receipts of \$751,118.49, or an average of \$187,779.62 a year. The average during Mr. Roach's term is \$314,404.62.

Stone for High Honor. The Christmas season political rumor is that William Jennings Bryan is to retire soon from the cabinet and is to be succeeded as secretary of state by William Joel Stone. 11

Major to Make Address. The board of directors of the Missouri Grain Dealers' association met here to arrange the program for the annual convention in St. Louis, Jan. 18 and 19. Gov. Major will make

an address Miss Droste Seeks Senate Job. Miss Theresa Droste of Jefferson City, whose name was given among the candidates for elective positions in the house and senate of the Fortyeighth general assembly as a candi-date for the position of folder of the house, is a candidate for that position in the senate.

Houston to Speak at U. of M. D. F. Houston, secretary of agriculture, will make an address Jan. 13 at the University of Missouri. It will be farmers' week.

Burglar Paroled. Gov. Major paroled Jack Bingham tenced for two years for burglary Bingham got 60 days off his time for meritorious work on the public highways on "good roads" day last Au

Delays Naming Blair's Successor.
It is understood that the supren court will not take up the selection of a member of the supreme court com-mission until after. Commissioner James T. Blair has been inducted into office as a member of the bench.



BUTWATEN PLANTS ON KLECTRIFIED AND DNELECTRIFIED SOIL

transmis-

OW that scientists have discovered that high frequency electrical cur-rents are powerful stimulants both of plant and animal life, the farm hand of the future may have to be a duly qualified electrical engineer before he can get a job.

It will not be enough for him to know how to manipulate the motors and

sion gear by which the farm. machinery will be run. He will have to be up on the chemistry of electricity. He will have not only to know the use of violet rays in purifying the drinking water, but will also have to know whether ground wires are better for beets, ruby lights for radishes, mercury vapor for tobacco and electric sprinkling for

something else. He will have to be omething of a plant neurologist, too. When the corn in the south forty is getting "nerves," or when the oats in the new ground is becoming too somnolent, he will have to make correct diagnoses and prescribe the proper

when the canny American farmer learns that he can double or even treble the output of his fields by the use of electricity, somebody will have to find a way for him to use electricity and make a good profit out of his crops.

was more pregnant of great possibilities, It was really part of the report of the convention's committee of progress and was read by the committee chairman, T. C. Martin of New York, an authority on things electrical. He gave facts and figures to show that plants electrically treated

The work was started on Moraine farm in the river valley, four miles south of Dayton, Ohio. Dr. Herbert G. Dorsey, an expert, had charge of the experiments, which were fostered by the efforts of F. M. Tait, a former president

In preliminary tests, according to Martin's reto different kinds of electrification. To insure that the soil of one plot was not better than that of another, top earth was collected, mixed and sifted and then was laid to the uniform depth of

In the soil of plot No. 1 was buried a wire screen. Over the plot was a network of wire, stretched about fifteen inches from the ground. Connecting the network above the ground and the screen below were several wire antennae. The screen was connected to one terminal of a Tesla coil and the network to the other. A transformer stepped a 110-volt alternating current up to 5,000 volts, charging a condenser of tinfoil and glass plates, which discharged through a primary of the coil. About one hundred and thirty watts were operated for an hour each morning and

Plot No. 2 was illuminated by a 100-watt tungsten lamp with a ruby bulb. The light was turned on for three hours daily, beginning at sundown. Plot No. 3 was illuminated the same way, except that a mercury vapor lamp was used. No. had no artificial stimulation of any kind, being intended as a comparison between electrically excited plant growth and that of natural condi-



THE ELECTRICAL PARM

Electrification for plant growth has arrived. And

A few weeks ago there was a convention of practical electricians in Philadelphia. Among the ad-dresses one virtually escaped the attention of the corps of reporters. Yet of all the addresses, none

grew much more rapidly than those growing under normal conditions. Why this was so, he did not assume to say. He simply gave the results of experiments.

of the National Electric Light association.

port, small plots were marked off for exposure seven inches over the entire area.



SHOWING FLOURISHING CONDITION OF THE CROPS ON THE ELECTRIC FARM

In plot No. 5 was buried a wire network connected to the terminal of a 110-volt direct current. The positive terminal was attached to a small sprinkling can with a carbon electrode in its center. The can being filled, the water was subjected to electrolysis for several minutes. The plot was then sprinkled from the can, the theory being that the current might flow from the can, through the streams of water to the soil.

Plots Nos. 6 and 7 were subdivided into four individual boxes, two feet square, separated by porcelain insulators and arranged with carbon electrodes at each end. To these electrodes were applied both direct and alternating currents.

After radish and lettuce seed had been planted and germination had begun, the various methods of electrification were tried with extreme care. The result of the experiments showed that the plants in plot No. 1 grew in every instance far more rapidly than those in the other beds and more than double the normal growth as shown in the unelectrified bed. From this the experimenters became convinced

that electrification of the ground by high-frequency currents stimulated plant life to an extent that warranted a more complete investigation. So they selected two acres of flat, rich ground.

First a network of sprinkling pipes was built 15 feet above ground. The pipes ran east and west a distance of 200 feet and were spaced at 50-foot intervals. In the northeast corner of the

ties issued an order that no aeroplanes or air-

ships must be photographed at a distance of

less than forty yards, or of an air station at all,

Germany has always been the most dangerous

country for the amateur photographer, and, more

without the permission of the authorities.

the nation in a single season would be tremendous.

In his formal report to the association, Martin said that many questions had yet to be answered before the use of electricity for the general stimulation of plant life could be considered economically possible. He declared, however, that many of these questions are being worked out in greenhouses over the country.

Just as these American experimenters proved the importance of electrification to plant life, a group of English experimenters proved its importance to animal life. They took two large brooders, filled with newly hatched chickens of the same breeds. One of them was subjected to the influence of high-frequency currents and the other was not. Those in the former were found to grow much more rapidly than those in the

Following is a tabulation of the results of electrical stimulation of vegetables. It will be observed that in every particular the plants in the first plot, where the high-frequency current and Tesla coil were used, excelled those in plot No. 4. where natural conditions prevailed:

Radishes (ten plants selected at random);

Plot 4-Normal.
Plot 2-Mercury
Vapor
Plot 2-Ruby
Light
Plot 1-Testa
Coll

on the spot. Total plant weight, grams 265.70 137.80 109.50 180.00 78.50

Pops and leaves, per cent. 43,85 54.92 60.18 52.77 55.66

Hampton-Dinwiddow told me his family is a very old one. They were one of the first to Rhodes-The grocer told me yesterday that

THEIR DESCENT.

SUITS HERSELF.

now they are the last to come across.-Judge.

"My wife is always asking me what I would like to eat." "That's kind of her."

On General Principles.

STOP EATING MEAT JF KIDNEYS OR BACK HURT

Take a Glass of Salte to Clean Kidneys If Bladder Bothers You-Meat Forms Uric Acid.

Eating meat regularly eventually produces kidney trouble in some form or other, says a well-known authority. because the uric acid in meat excites the kidneys, they become overworked; get sluggish; clog up and cause all sorts of distress, particularly backache and misery in the kidney region; rheumatic twinges, severe headaches, acid stomach, constipation, torpid liver, sleeplessness, bladder and urinary irritation.

The moment your back beet or kidneys aren't acting right, or if bladder bothers you, get about four sauces of Jad Salts from any good pharmacy; take a tablespoonful in a glass of water before breakfast for a few days and your kidneys will then act fine. This famous salts is made from the acid of grapes and lemon juice, combined with lithia, and has been used for generations to flush clogged kidneys and stimulate them to normal activity; also to neutralize the acids in the urine so it no longer irritates, thus ending bladder disorders.

tract seven copper wires were

stretched north and south, each

being 200 feet long and an inter-

val of 15 feet separating them. The wires were elevated suffi-ciently for the soil to be plowed

with horses. The ends of the

wires were attached to insulators

on top of gas pipes set in con-

At the eastern edge of the

house the experimenters built a

small transformer house and in-

stalled machinery which would

By the latter part of last July the system was in

The ground was planted to radishes, lettuce, beets,

As a result it was found that practically all the

zone.

cut and it was found

that each plant weighed

cut and then it

weighed only 1,632

grams to the plant.

Taking into considera-

tion that the most rapid

growth of the tobacco

plant is in its last two

weeks before ripening,

the experimenters esti-

mated that the actual

increase in weight of

the plants in the elec-

trifled zone was 20 per

cent greater than that

in the unelectrified

zone. If this could be

Jad Salts cannot injure anyone; makes a delightful effervescent lithiawater drink which millions of men and women take now and then to keep the kidneys and urinary organs clean, thus avoiding serious kidney disease.-Adv.

Comparative Liberty. "Do you believe the poet's saying that 'Stone walls do not a prison

make, nor fron bars a cage'?" asked Mr. Twobble. "I don't know," said Mr. Meekson, thoughtfully, "but I dare say that stone walls and prison bars seem rather substantial things to a man who has been hedged about for 20 years by the glances of a watchful

A New Course. In a Philadelphia family recently the engagement of a daughter was announced. A friend calling was met at the door by the colored maid, who an-

wife.'

"No'm; Miss Alice ain't at home dis aft'noon-she's gone down to de class."

plants in the electrified area grew much more rap-"What class?" inquired the visitor. "You know, Miss Alice is gwine to than those outside the be ma'ied in de fall," explained the maid, "an' she's takin' a cou'se in do-The electrified end mestic silence."-Life. of the tobacco crop was

CARE FOR YOUR HAIR

1,687 grams. It was two By Frequent Shampoos With Cuticurs weeks before the un-Soap. Trial Free. treated tobacco could

Precede shampoos by touches of Cuticura Ointment if needed to spots of dandruff, itching and irritation of the scalp. Nothing better for the complexion, hair, hands or skin than these fragrant supercreamy emollients. Also as preparations for the tollet.

Sample each free by mail with Book. Address postcard, Cuticura, Dept. XY, Boston. Sold everywhere .- Adv.

The Finishing Touch.
The young man hesitated to believe the statement of her little brother that the young lady was not at home. He repeated the question, at the same followed out on a grand time displaying a quarter. The boy scale, it is apparent eyed it longingly and again replied in the negative

that the effect of electrification on the an-"But didn't she leave a message for nual tobacco output of me?" asked the disappointed swain. "Yes," said the lad-and nothing

As one who sees a great light, the young man tossed him the coin. "Now," he said, "out with the mes-

sage. "She said she's not gonna see you any more and you're not to give me any money."-Philadelphia Ledger.

Just the Boy He Wanted.

The aim of golfers is, of course, to go round the course with as few strokes as possible, and the man with the least strokes wins the game. A player realized this once, and decided to engage a caddy who would help him.

"Caddle," he said to the boy who came up to him, "can you count?" "Yes, sir," said the boy.

"Can you add up?" "Yes, sir."

"Well, what's five and seven and four?" "Come along," said the golfer,

"you'll do." And he engaged the boy

STICK TO IT Until Coffee Hits You Hard.

It is about as well to advise people to stick to coffee until they get hit hard enough so that they will never forget their experience.

A woman writes and her letter is condensed to give the facts in a short space:

"I was a coffee playe and stuck to it like a toper to his 'cups,' notwithstanding I frequently had severe attacks of sick headache; then I used more coffee to relieve the headache, and this was well enough until the coffee effect wore off. "Finally attacks of rheumatism be-

gan to appear, and ultimately the whole nervous system began to break down and I was fast becoming a wreck. "After a time I was induced to quit

coffee and take up Postum. This was half a year ago. The result has been most satisfactory.

"The rheumatism is gone entirely. "Oh, I don't know. When I tell her she says, nerves practically well and ateady, digestion almost perfect, never have any more sick headaches and am gaining steadily in weight and strength.

Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville," in pkgs.

Postum comes in two forms: Regular Postum — must be well boiled. 15c and 25c packages. instant Postum - is a soluble powder. A teaspoonful dissolves quickly in a cup of hot water and, with cream and sugar, makes a delicious bever-age instantly. 30c and 50c tins.

The cost per cup of both kinds is

"There's a Reason" for Postum

At the outset of the war the military authori-

CAMERA MEN IN DANGER

Amateur photographers at the seaside or even in London and other big cities must be more careful than ever how they take snapshots during wartime, for a thoughtless use of their cameras may easily cause them to find themselves in prison for a few days, to say the least, Pearson's Weekly remarks.

In the early days of the war, for instance, a perfectly innocent Hull ship chandler, on a holiday in London, with his wife, was arrested by the police for taking photographs of Battersea bridge. After being detained the best part of the day, during which inquiries were made, the authorities were satisfied that he was merely a harmless snapshotter, but nevertheless they warned him to keep his camera out of use until

the war is over! There are probably many thousands of amateur photographers who, wishing to snap scenes in the neighborhood of barracks, or other milltary or naval places, find themselves arrested as if they were spies. If they must take photographs in these war days let them resort to the woods and country lanes, as far from military

December 3, 1818, is a Date That is a

Factor in History of Famous City.

than one tourist has found himself roughly handled by the German police for innocently taking photographs. A special bill was passed a few years ago threatening tourists with a fine of £50 or two months' imprisonment who took photographs without permission.

The French officials in the towns on the Franco-German frontier have siways objected to anyone taking snapshots, and, indeed, many a tour ist has had his camera temporarily confiscated, to find afterward that his plates have all been rendered useless

Italy not only bars people taking photographs near fortifications, but forbids the use of a camera in most of the picture galleries and mu-

Pennsylvania towns, and Pittsburgh gersto n and Comberland by the On December 3, 1818, and for sev- was made a target for antagonism Wheeling route, and "actually arrived oral, days preceding and succeeding, which had southern feeling for some at Pittsburgh by the western carrier." "I'm Pittsburgh was peculiarly agitated in thing of its inspiration, one of the in December, 1818, it was boasted in bases of it being the long-standing disturpative. This might almost have pute in regard to the boundary be Pittsburgh, your day is over: the "Ho

"The idea!' and orders something else." PITTSBURGH'S YOUNG DAYS of merchandise lying along our northern focal point. Even the ad-1 to similar effect; all of which is as shores." Great pressure had been ministration at Washington was a matter of course immensely amusbrought to bear in favor of turnpikes brought into the transportation mut- ing in contemplating these anniverwhich would better Baltimore, Cum- ter, and mails were sent from Balti- saries, discussion piling on discussion beriand and Wheeling rather than more. Washington, Alexandria, Ha- of a thousand matters of this kind.

"I'm alraid I overdid my efforts to be popular," said the member of con-

been written that our rivers are an tween Virginia and Pennsylvania scopier of influence and wealth is to "I voted in favor of every kind or low that navigation is very difficult. which at one time affinestied to a mine travel to us; the Cumuciand road has appropriation and against every kind and there is probably a million worth fature war, with Pittsburgh for its done the business," and chapters more of tax that anybody proposed.